



STATISTICAL ANALYSIS USING R SOFTWARE

ABHIRAM DASH

Statistical Analysis Using R Software

Abhiram Dash

Assistant Professor (Agricultural Statistics)
Department of Agricultural Statistics
College of Agriculture, Bhubaneswar
Odisha University of Agriculture and Technology
Bhubaneswar, Odisha



NEW INDIA PUBLISHING AGENCY

New Delhi-110 034



NEW INDIA PUBLISHING AGENCY

101, Vikas Surya Plaza, CU Block, LSC Market

Pitam Pura, New Delhi – 110 034, India

Email: info@nipabooks.com

Web: www.nipabooks.com

For customer assistance, please contact

Phone: + 91-11-27 34 17 17 Fax: + 91-11- 27 34 16 16

E-Mail: feedbacks@nipabooks.com

© 2021, Publisher

ISBN: 978-81-94766-81-0

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, including electronic, mechanical, photocopying recording or otherwise without the prior written permission of the publisher or the copyright holder.

This book contains information obtained from authentic and highly reliable sources. Reasonable efforts have been made to publish reliable data and information, but the author/s, editor/s and publisher cannot assume responsibility for the validity, accuracy or completeness of all materials or information published herein or the consequences of their use. The work is published with the understanding that the publisher and author/s are not attempting to render any professional services. The author/s, editor/s and publisher have attempted to trace and acknowledge the copyright holders of all material reproduced in this publication and apologize to copyright holders if permission and/or acknowledgements to publish in this form have not been taken. If any copyrighted material has not been acknowledged, please write to us and let us know so that we may rectify the error, in subsequent reprints.

Trademark Notice: NIPA, the NIPA logos and their presentations (the way they are written/presented) in this book are the trademarks of the publisher and hence may not be used without written permission, if copied or used without authorization, the infringer will be prosecuted as per law.

NIPA also publishes books in a variety of electronic formats. Some content that appears in print may not be available in electronic books, and vice versa.

Composed and Designed by NIPA.

Contents

Preface v

1 Introduction to R 1

2. Objects, Functions and Operators in R9

3. R Packages37

4. Merging of Data in R41

5. Import and Export of Files in R45

6. Matrix operations in R49

7. Construction of Frequency Distribution by Using R63

8. Diagrammatic and Graphical Presentation in R.....67

9. Descriptive Statistics using R83

Annexures..... 109

Statistical Analysis Using R SOFTWARE

The book 'Statistical Analysis Using R software' deals with the fundamental concept of R software and the codes in R used for statistical analysis. It includes the development and content of R software, the concept of writing codes in R, importing of data from other software for use in R software. The codes in R used for statistical analysis purpose are mentioned in the mentioned and vividly explained. The book would definitely help the students and the personnel involved in teaching and research in understanding the concepts of R and its use for statistical analysis purpose.

Abhiram Dash, Assistant Professor (Agricultural Statistics), Department of Agricultural Statistics, College of Agriculture, Bhubaneswar, Odisha
University of Agriculture and Technology, Bhubaneswar, Odisha



NEW INDIA PUBLISHING AGENCY

101, Vikas Surya Plaza, CU Block, L.S.C. Market
Pitam Pura, New Delhi-110 034, India
Tel. : +91(11) 27341717, Fax : +91(11) 27341616
E-mail : info@nipabooks.com
Web : www.nipabooks.com

ISBN: 978-81-94766-81-0

